

Appl. No. : **09/762,568**
Filed : **July 30, 2001**

AMENDMENTS TO THE CLAIMS

1. **(Previously presented)** A plasmid vector comprising:
(D1) a retroviral integrase gene;
(D2) a segment of DNA forming a region for controlling the expression of the integrase gene; and
(D3) a segment of DNA serving as an integrase recognition region when the integrase resulting from the expression of D1 catalyzes integration, wherein the integrase recognition region (D3) comprises a connecting sequence of terminal bases formed when one long terminal repeat (LTR) is joined to another LTR.
2. **(Previously presented)** The plasmid vector of Claim 1 further comprising (D4) a segment of DNA to be integrated into the genome of host cells.
3. **(Canceled)**
4. **(Previously presented)** The plasmid vector according to claim 1, wherein the integrase recognition region (D3) comprises a region formed by two LTRs joined together, and wherein both of the DNA segments (D2) and (D3) are situated within the region formed by the two LTRs joined together.
5. **(Previously presented)** The plasmid vector according to claim 1, wherein a DNA segment encoding a nuclear localization signal is further added to the integrase gene.
6. **(Previously presented)** The plasmid vector according to claim 1, wherein the integrase gene is isolated from viruses belonging to Retroviridae.
7. **(Previously presented)** The plasmid vector according to claim 6, wherein the viruses belonging to Retroviridae are from the subfamily Oncovirinae.

Claims 8 -18 (Canceled)